CRF Errors Edited by the STIC Systems Branch

Serial Number: _10/547,206_   CRF Edit Date: _9/9/05_
                                 Edited by: _hw_

___ Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

___ Corrected the SEQ ID NO. Sequence numbers edited were:

_____

___ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

_____

___ Deleted: ___ invalid beginning/end-of-file text ; ___ page numbers

___ Inserted mandatory headings/numeric identifiers, specifically:

_____

___ Moved responses to same line as heading/numeric identifier, specifically:

_____

_/_ Other: _Corrected <140>, <141>, <150>, <151> section_

_____
_____

Revised 09/09/2003

PCT10

RAW SEQUENCE LISTING   DATE: 09/09/2005
PATENT APPLICATION: US/10/547,206   TIME: 16:34:26

Input Set : **A:\PTO.AMC.txt**
Output Set: **N:\CRF4\09092005\J547206.raw**

```
   3 <110> APPLICANT: JACQUET, Alain
   5 <120> TITLE OF INVENTION: HYPOALLERGENIC DER P1 AND DER P3 PROTEINS FROM
DERMATOGRAPHOIDES
   6       PTERONYSSINUS
   8 <130> FILE REFERENCE: VB60107
C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/547,206
C--> 10 <141> CURRENT FILING DATE: 2005-08-26
  10 <150> PRIOR APPLICATION NUMBER: PCT/EP2004/001850
  11 <151> PRIOR FILING DATE: 2004-02-24
  13 <150> PRIOR APPLICATION NUMBER: GB 0304424.5
  14 <151> PRIOR FILING DATE: 2003-02-26
  16 <160> NUMBER OF SEQ ID NOS: 26
  18 <170> SOFTWARE: FastSEQ for Windows Version 4.0
  20 <210> SEQ ID NO: 1
  21 <211> LENGTH: 909
  22 <212> TYPE: DNA
  23 <213> ORGANISM: Dermatophagoides pteronyssinus
  25 <220> FEATURE:
  26 <221> NAME/KEY: CDS
  27 <222> LOCATION: (1)...(906)
  29 <400> SEQUENCE: 1
  30 cgg ccg agc tcc att aag acc ttc gag gaa tac aag aaa gcc ttc aac    48
  31 Arg Pro Ser Ser Ile Lys Thr Phe Glu Glu Tyr Lys Lys Ala Phe Asn
  32 1               5                   10                  15
  34 aag agc tat gcc acc ttc gag gac gag gag gcc gcg cgc aag aac ttc    96
  35 Lys Ser Tyr Ala Thr Phe Glu Asp Glu Glu Ala Ala Arg Lys Asn Phe
  36             20                  25                  30
  38 ctg gaa agc gtg aaa tac gtg cag agc aac ggc ggg gct ata aat cac   144
  39 Leu Glu Ser Val Lys Tyr Val Gln Ser Asn Gly Gly Ala Ile Asn His
  40         35                  40                  45
  42 ctg tcc gac ctg tct tta gac gag ttc aag aac cgg ttc ctg atg agc   192
  43 Leu Ser Asp Leu Ser Leu Asp Glu Phe Lys Asn Arg Phe Leu Met Ser
  44      50                  55                  60
  46 gcc gag gct ttc gaa cac ctt aag acc cag ttt gat ctc aac gcg gag   240
  47 Ala Glu Ala Phe Glu His Leu Lys Thr Gln Phe Asp Leu Asn Ala Glu
  48 65                  70                  75                  80
  50 acc aac gcc tgc agt atc aac ggc aat gcc ccc gct gag att gat ctg   288
  51 Thr Asn Ala Cys Ser Ile Asn Gly Asn Ala Pro Ala Glu Ile Asp Leu
  52                 85                  90                  95
  54 cgc cag atg agg acc gtg act ccc atc cgc atg caa ggc ggc tgc ggg   336
  55 Arg Gln Met Arg Thr Val Thr Pro Ile Arg Met Gln Gly Gly Cys Gly
  56             100                 105                 110
  58 tct tgt tgg gcc ttt tca ggc gtg gcc gcg aca gag tcg gca tac ctc   384
  59 Ser Cys Trp Ala Phe Ser Gly Val Ala Ala Thr Glu Ser Ala Tyr Leu
```

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/547,206
DATE: 09/09/2005
TIME: 16:34:26

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF4\09092005\J547206.raw

```
60          115                      120                      125
62 gcg tat cgg aat cag agc ctg gac ctc gct gag cag gag ctc gtt gac   432
63 Ala Tyr Arg Asn Gln Ser Leu Asp Leu Ala Glu Gln Glu Leu Val Asp
64      130                      135                      140
66 tgc gcc tcc caa cac gga tgt cat ggg gat acg att ccc aga ggt atc   480
67 Cys Ala Ser Gln His Gly Cys His Gly Asp Thr Ile Pro Arg Gly Ile
68 145                      150                      155                      160
70 gaa tac atc cag cat aat ggc gtc gtg cag gaa agc tat tac cga tac   528
71 Glu Tyr Ile Gln His Asn Gly Val Val Gln Glu Ser Tyr Tyr Arg Tyr
72                      165                      170                      175
74 gta gct agg gag cag tcc tgc cgc cgt cct aac gca cag cgc ttc ggc   576
75 Val Ala Arg Glu Gln Ser Cys Arg Arg Pro Asn Ala Gln Arg Phe Gly
76                      180                      185                      190
78 att tcc aat tat tgc cag atc tac ccc cct aat gcc aac aag atc agg   624
79 Ile Ser Asn Tyr Cys Gln Ile Tyr Pro Pro Asn Ala Asn Lys Ile Arg
80          195                      200                      205
82 gag gcc ctg gcg cag acg cac agc gcc atc gct gtc atc atc gga atc   672
83 Glu Ala Leu Ala Gln Thr His Ser Ala Ile Ala Val Ile Ile Gly Ile
84      210                      215                      220
86 aag gat ctg gac gca ttc cgg cac tat gac ggg cgc aca atc atc cag   720
87 Lys Asp Leu Asp Ala Phe Arg His Tyr Asp Gly Arg Thr Ile Ile Gln
88 225                      230                      235                      240
90 cgc gac aac gga tat cag cca aac tac cac gcg gtc aac atc gtg ggt   768
91 Arg Asp Asn Gly Tyr Gln Pro Asn Tyr His Ala Val Asn Ile Val Gly
92                      245                      250                      255
94 tac tcg aac gcc cag ggg gtg gac tac tgg atc gtg aga aac agt tgg   816
95 Tyr Ser Asn Ala Gln Gly Val Asp Tyr Trp Ile Val Arg Asn Ser Trp
96          260                      265                      270
98 gac act aac tgg ggc gac aac ggc tac ggc tac ttc gcc gcc aac atc   864
99 Asp Thr Asn Trp Gly Asp Asn Gly Tyr Gly Tyr Phe Ala Ala Asn Ile
100          275                      280                      285
102 gac ctg atg atg atc gag gag tac ccg tac gtg gtg atc ctg            906
103 Asp Leu Met Met Ile Glu Glu Tyr Pro Tyr Val Val Ile Leu
104      290                      295                      300
106 taa                                                             909
108 <210> SEQ ID NO: 2
109 <211> LENGTH: 302
110 <212> TYPE: PRT
111 <213> ORGANISM: Dermatophagoides pteronyssinus
113 <400> SEQUENCE: 2
114 Arg Pro Ser Ser Ile Lys Thr Phe Glu Glu Tyr Lys Lys Ala Phe Asn
115 1                      5                      10                      15
116 Lys Ser Tyr Ala Thr Phe Glu Asp Glu Glu Ala Ala Arg Lys Asn Phe
117          20                      25                      30
118 Leu Glu Ser Val Lys Tyr Val Gln Ser Asn Gly Gly Ala Ile Asn His
119          35                      40                      45
120 Leu Ser Asp Leu Ser Leu Asp Glu Phe Lys Asn Arg Phe Leu Met Ser
121      50                      55                      60
122 Ala Glu Ala Phe Glu His Leu Lys Thr Gln Phe Asp Leu Asn Ala Glu
```

RAW SEQUENCE LISTING   DATE: 09/09/2005
PATENT APPLICATION: US/10/547,206   TIME: 16:34:26

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF4\09092005\J547206.raw

```
123 65                        70                    75                        80
124 Thr Asn Ala Cys Ser Ile Asn Gly Asn Ala Pro Ala Glu Ile Asp Leu
125                        85                    90                        95
126 Arg Gln Met Arg Thr Val Thr Pro Ile Arg Met Gln Gly Gly Cys Gly
127                        100                   105                       110
128 Ser Cys Trp Ala Phe Ser Gly Val Ala Ala Thr Glu Ser Ala Tyr Leu
129                115                   120                   125
130 Ala Tyr Arg Asn Gln Ser Leu Asp Leu Ala Glu Gln Glu Leu Val Asp
131         130                   135                   140
132 Cys Ala Ser Gln His Gly Cys His Gly Asp Thr Ile Pro Arg Gly Ile
133 145                   150                   155                       160
134 Glu Tyr Ile Gln His Asn Gly Val Val Gln Glu Ser Tyr Tyr Arg Tyr
135                        165                   170                       175
136 Val Ala Arg Glu Gln Ser Cys Arg Arg Pro Asn Ala Gln Arg Phe Gly
137                180                   185                   190
138 Ile Ser Asn Tyr Cys Gln Ile Tyr Pro Pro Asn Val Asn Lys Ile Arg
139                195                   200                   205
140 Glu Ala Leu Ala Gln Thr His Ser Ala Ile Ala Val Ile Ile Gly Ile
141         210                   215                   220
142 Lys Asp Leu Asp Ala Phe Arg His Tyr Asp Gly Arg Thr Ile Ile Gln
143 225                   230         ·         235                       240
144 Arg Asp Asn Gly Tyr Gln Pro Asn Tyr His Ala Val Asn Ile Val Gly
145                        245                   250                       255
146 Tyr Ser Asn Ala Gln Gly Val Asp Tyr Trp Ile Val Arg Asn Ser Trp
147                260                   265                   270
148 Asp Thr Asn Trp Gly Asp Asn Gly Tyr Gly Tyr Phe Ala Ala Asn Ile
149                275                   280                   285
150 Asp Leu Met Met Ile Glu Glu Tyr Pro Tyr Val Val Ile Leu
151         290                   295                   300
```

154 <210> SEQ ID NO: 3
155 <211> LENGTH: 302
156 <212> TYPE: PRT
157 <213> ORGANISM: Artificial Sequence
159 <220> FEATURE:
160 <223> OTHER INFORMATION: C4R mutant of ProDer p 1
162 <400> SEQUENCE: 3

```
163 Arg Pro Ser Ser Ile Lys Thr Phe Glu Glu Tyr Lys Lys Ala Phe Asn
164 1                     5                     10                        15
165 Lys Ser Tyr Ala Thr Phe Glu Asp Glu Glu Ala Ala Arg Lys Asn Phe
166                20                    25                    30
167 Leu Glu Ser Val Lys Tyr Val Gln Ser Asn Gly Gly Ala Ile Asn His
168                35                    40                    45
169 Leu Ser Asp Leu Ser Leu Asp Glu Phe Lys Asn Arg Phe Leu Met Ser
170         50                    55                    60
171 Ala Glu Ala Phe Glu His Leu Lys Thr Gln Phe Asp Leu Asn Ala Glu
172 65                    70                    75                        80
173 Thr Asn Ala Arg Ser Ile Asn Gly Asn Ala Pro Ala Glu Ile Asp Leu
174                85                    90                        95
175 Arg Gln Met Arg Thr Val Thr Pro Ile Arg Met Gln Gly Gly Cys Gly
```

RAW SEQUENCE LISTING   DATE: 09/09/2005
PATENT APPLICATION: US/10/547,206   TIME: 16:34:26

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF4\09092005\J547206.raw

```
176              100                105                110
177 Ser Cys Trp Ala Phe Ser Gly Val Ala Ala Thr Glu Ser Ala Tyr Leu
178          115                120                125
179 Ala Tyr Arg Asn Gln Ser Leu Asp Leu Ala Glu Gln Glu Leu Val Asp
180      130                135                140
181 Cys Ala Ser Gln His Gly Cys His Gly Asp Thr Ile Pro Arg Gly Ile
182 145                150                155                160
183 Glu Tyr Ile Gln His Asn Gly Val Val Gln Glu Ser Tyr Tyr Arg Tyr
184              165                170                175
185 Val Ala Arg Glu Gln Ser Cys Arg Arg Pro Asn Ala Gln Arg Phe Gly
186          180                185                190
187 Ile Ser Asn Tyr Cys Gln Ile Tyr Pro Pro Asn Val Asn Lys Ile Arg
188          195                200                205
189 Glu Ala Leu Ala Gln Thr His Ser Ala Ile Ala Val Ile Ile Gly Ile
190      210                215                220
191 Lys Asp Leu Asp Ala Phe Arg His Tyr Asp Gly Arg Thr Ile Ile Gln
192 225                230                235                240
193 Arg Asp Asn Gly Tyr Gln Pro Asn Tyr His Ala Val Asn Ile Val Gly
194              245                250                255
195 Tyr Ser Asn Ala Gln Gly Val Asp Tyr Trp Ile Val Arg Asn Ser Trp
196          260                265                270
197 Asp Thr Asn Trp Gly Asp Asn Gly Tyr Gly Tyr Phe Ala Ala Asn Ile
198          275                280                285
199 Asp Leu Met Met Ile Glu Glu Tyr Pro Tyr Val Val Ile Leu
200      290                295                300
203 <210> SEQ ID NO: 4
204 <211> LENGTH: 909
205 <212> TYPE: DNA
206 <213> ORGANISM: Artificial Sequence
208 <220> FEATURE:
209 <221> NAME/KEY: CDS
210 <222> LOCATION: (1)...(906)
212 <223> OTHER INFORMATION: C4R mutant of ProDer p 1
214 <400> SEQUENCE: 4
215 cgg ccg agc tcc att aag acc ttc gag gaa tac aag aaa gcc ttc aac    48
216 Arg Pro Ser Ser Ile Lys Thr Phe Glu Glu Tyr Lys Lys Ala Phe Asn
217 1               5                  10                 15
219 aag agc tat gcc acc ttc gag gac gag gag gcc gcg cgc aag aac ttc    96
220 Lys Ser Tyr Ala Thr Phe Glu Asp Glu Glu Ala Ala Arg Lys Asn Phe
221             20                 25                 30
223 ctg gaa agc gtg aaa tac gtg cag agc aac ggc ggg gct ata aat cac   144
224 Leu Glu Ser Val Lys Tyr Val Gln Ser Asn Gly Gly Ala Ile Asn His
225         35                 40                 45
227 ctg tcc gac ctg tct tta gac gag ttc aag aac cgg ttc ctg atg agc   192
228 Leu Ser Asp Leu Ser Leu Asp Glu Phe Lys Asn Arg Phe Leu Met Ser
229     50                 55                 60
231 gcc gag gct ttc gaa cac ctt aag acc cag ttt gat ctc aac gcg gag   240
232 Ala Glu Ala Phe Glu His Leu Lys Thr Gln Phe Asp Leu Asn Ala Glu
233 65                 70                 75                 80
```

```
235 acc aac gcc cgt agt atc aac ggc aat gcc ccc gct gag att gat ctg    288
236 Thr Asn Ala Arg Ser Ile Asn Gly Asn Ala Pro Ala Glu Ile Asp Leu
237                 85                  90                  95
239 cgc cag atg agg acc gtg act ccc atc cgc atg caa ggc ggc tgc ggg    336
240 Arg Gln Met Arg Thr Val Thr Pro Ile Arg Met Gln Gly Gly Cys Gly
241             100                 105                 110
243 tct tgt tgg gcc ttt tca ggc gtg gcc gcg aca gag tcg gca tac ctc    384
244 Ser Cys Trp Ala Phe Ser Gly Val Ala Ala Thr Glu Ser Ala Tyr Leu
245             115                 120                 125
247 gcg tat cgg aat cag agc ctg gac ctc gct gag cag gag ctc gtt gac    432
248 Ala Tyr Arg Asn Gln Ser Leu Asp Leu Ala Glu Gln Glu Leu Val Asp
249         130                 135                 140
251 tgc gcc tcc caa cac gga tgt cat ggg gat acg att ccc aga ggt atc    480
252 Cys Ala Ser Gln His Gly Cys His Gly Asp Thr Ile Pro Arg Gly Ile
253 145                 150                 155                 160
255 gaa tac atc cag cat aat ggc gtc gtg cag gaa agc tat tac cga tac    528
256 Glu Tyr Ile Gln His Asn Gly Val Val Gln Glu Ser Tyr Tyr Arg Tyr
257                 165                 170                 175
259 gta gct agg gag cag tcc tgc cgc cgt cct aac gca cag cgc ttc ggc    576
260 Val Ala Arg Glu Gln Ser Cys Arg Arg Pro Asn Ala Gln Arg Phe Gly
261             180                 185                 190
263 att tcc aat tat tgc cag atc tac ccc cct aat gcc aac aag atc agg    624
264 Ile Ser Asn Tyr Cys Gln Ile Tyr Pro Pro Asn Ala Asn Lys Ile Arg
265             195                 200                 205
267 gag gcc ctg gcg cag acg cac agc gcc atc gct gtc atc atc gga atc    672
268 Glu Ala Leu Ala Gln Thr His Ser Ala Ile Ala Val Ile Ile Gly Ile
269         210                 215                 220
271 aag gat ctg gac gca ttc cgg cac tat gac ggg cgc aca atc atc cag    720
272 Lys Asp Leu Asp Ala Phe Arg His Tyr Asp Gly Arg Thr Ile Ile Gln
273 225                 230                 235                 240
275 cgc gac aac gga tat cag cca aac tac cac gcg gtc aac atc gtg ggt    768
276 Arg Asp Asn Gly Tyr Gln Pro Asn Tyr His Ala Val Asn Ile Val Gly
277                 245                 250                 255
279 tac tcg aac gcc cag ggg gtg gac tac tgg atc gtg aga aac agt tgg    816
280 Tyr Ser Asn Ala Gln Gly Val Asp Tyr Trp Ile Val Arg Asn Ser Trp
281             260                 265                 270
283 gac act aac tgg ggc gac aac ggc tac ggc tac ttc gcc gcc aac atc    864
284 Asp Thr Asn Trp Gly Asp Asn Gly Tyr Gly Tyr Phe Ala Ala Asn Ile
285             275                 280                 285
287 gac ctg atg atg atc gag gag tac ccg tac gtg gtg atc ctg            906
288 Asp Leu Met Met Ile Glu Glu Tyr Pro Tyr Val Val Ile Leu
289         290                 295                 300
291 taa                                                                909
293 <210> SEQ ID NO: 5
294 <211> LENGTH: 302
295 <212> TYPE: PRT
296 <213> ORGANISM: Artificial Sequence
298 <220> FEATURE:
299 <223> OTHER INFORMATION: C31R mutant of ProDer p 1
```

VERIFICATION SUMMARY   DATE: 09/09/2005
PATENT APPLICATION: **US/10/547,206**   TIME: 16:34:27

Input Set : **A:\PTO.AMC.txt**
Output Set: **N:\CRF4\09092005\J547206.raw**

L:10 M:270 C: Current Application Number differs, Replaced Current Application No
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date

STATISTICS SUMMARY   DATE: 09/09/2005
PATENT APPLICATION: **US/10/547,206**   TIME: 16:34:27

Input Set : **A:\PTO.AMC.txt**
Output Set: **N:\CRF4\09092005\J547206.raw**

Application Serial Number: US/10/547,206
Alpha or Numeric or Xml: Numeric
Application Class:
Application File Date: 08-26-2005
Art Unit: PCT10
Software Application: FastSEQ
Total Number of Sequences: 26
Total Nucleotides: 7093
Total Amino Acids: 2114
Number of Errors: 0
Number of Warnings: 0
Number of Corrections: 2

MESSAGE SUMMARY

270 C: 1 (Current Application Number differs)
271 C: 1 (Current Filing Date differs)